食用紅甘蔗高品質品種選育

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摘　要： 從全省栽植食用紅甘蔗地方所搜集之 28 個地方種，經本場進行選育結果，計選出 10 個優良選系，於 88 年度在埔里鎮籃城里進行食用紅甘蔗新品系產量比較試驗（於 87 年 12 月 16 日插植），經農藝性狀調查結果，每平方公尺株數以台中選育 10 號（5.9 支）最多，比對照品種（埔里地方種）增加 0.6 支；株高以台中選育 2 號（250.4 公分）最高，比對照種增加 7.4 公分；節數以台中選育 4、5、6（27.4 節）較多，比對照種增加 0.3 節；葉幅以台中選育 3 號（6.8 公分）較寬，比對照品種增加 0.4 公分；中間 5 節長度以台中選育 10（42.9 公分）最長，比對照品種增 5.4 公分；節間莖徑以台中選育 3 號（3.6 公分）較粗，比對照種增加 0.3 公分；糖分以台中選育 10 號（19 Bix）較高，比對照種增加 0.6 度。供試 10 品系之產量比對照品種增加 0.8～10.9%，其中以台中選育 10 號之產量（12,111 公斤/公頃）最高，比對照品種（10.918 公斤/公頃）增加 10.9%；其後依次為台中選育 6、2 及 9 號，分別比對照品種增加 7.7%、7.5%及 1.7%，此四品系均比對照品種呈顯著增產。89 年度食用紅甘蔗新品系產量比較試驗（第二年），其供試品系及地點大致與 88 年度相同，目前仍生育中，預定在 90 年 2 月上旬收穫。

The Selection on Fresh Edible Sugarcane

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Abstract: The 28 fresh edible sugarcane local lines were collected from all over the Taiwan. Ten elite lines was selected in this station. The yield trail of those lo new lines was conducted in puli, Nantou county. The result showed that Taichung selection No.10 have the highest plant number, which is 5.9 per square meter. Than those of check Variety “Puli Local” by 0.6. Taichung selection No.2 have the highest plant height (250.4 cm), that is 7.4 cm higher than those of “Puli Local”. The Taichung selection No.4, 5 and 6 have the highest node number(27.4 nodes). The Taichung selection No.3 have the longest leaf width (6.8cm). The Taichung No.10 have the longest middle 5-node length (42.9cm). The Taichung No.3 have the longest stem diameter (3.6cm), which is 0.3cm longer than that of “Puli Lacal”. The Taichung No.10 have the highest sugar content (19 Brix). The average yield of 10 lines is 0.8-10.9% higher than that of check variety. Taichung 10 have the highest yield (12,111 kg/ha), which is 10.9% higher than that of check variety (10,918 kg/ha). The three lines, Taichung Nos. 6 、2 and 9 is higher than that of check variety by 7.7% 、7.5% and 1.7%, respectively. The yield of Taichung Nos 、10 、6 and 2 is significantly different from that of check variety.